

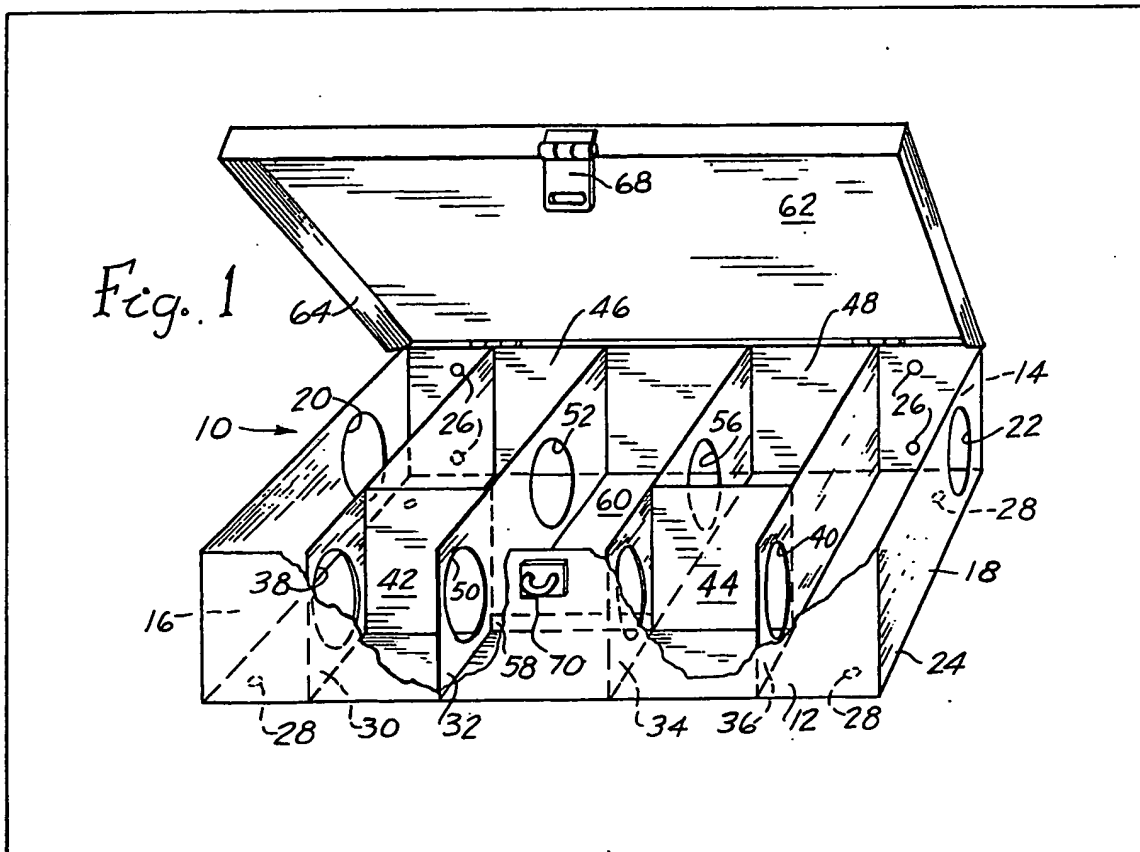
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(54) Rodent baiting device

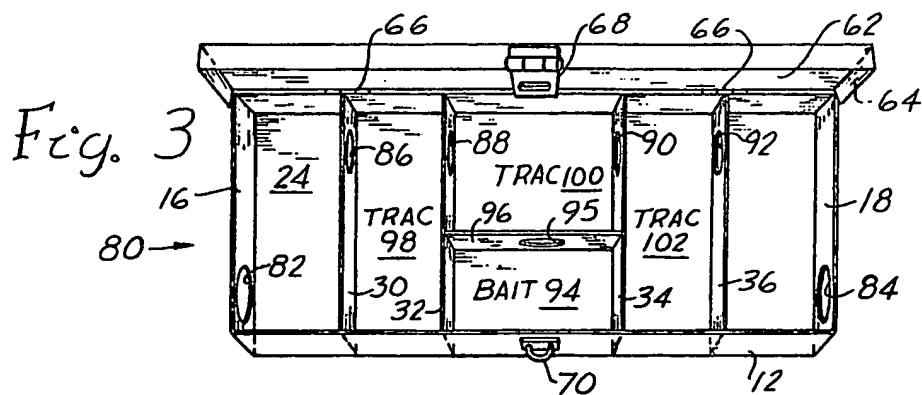
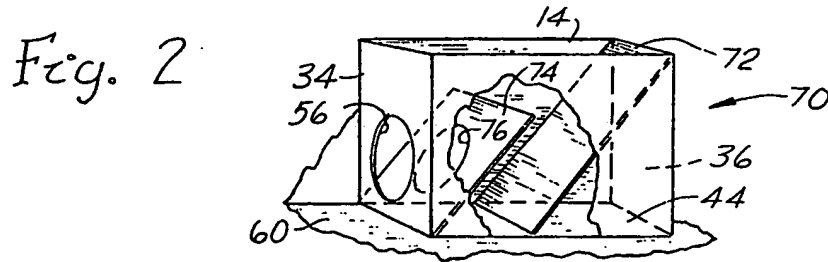
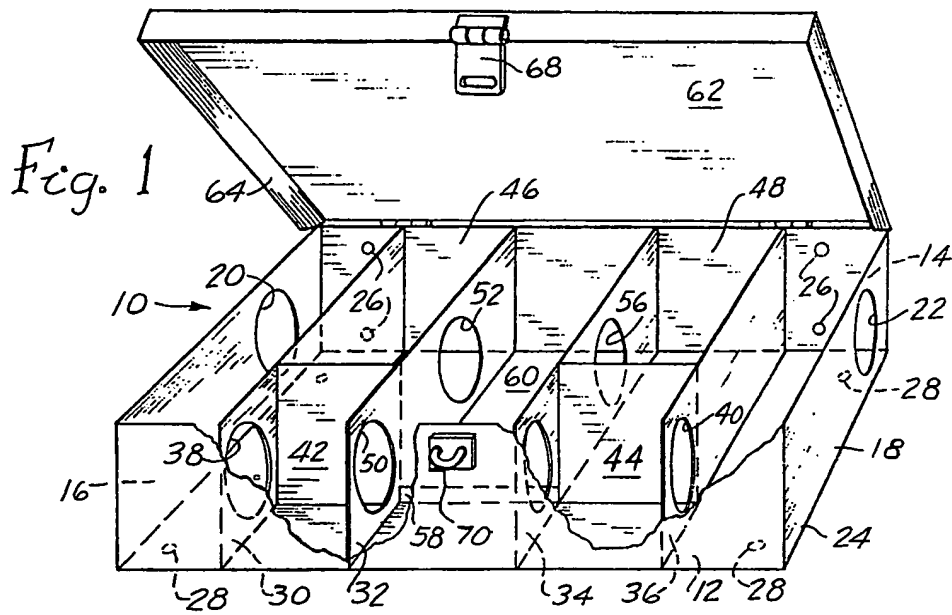
(57) A rodent baiting device comprises a rectangular box 10. The end walls 16, 18 have openings 20, 22 to permit the rodents to enter the interior of the box. Baffle members 30, 32, 34, 36, disposed parallel with the end walls 16, 18, extend upwardly to the top of the box and across its full width. The outermost baffles 30, 36 have openings 38, 40, which are offset from the openings 20, 22 in the end walls to prevent children or the like from gaining access to further interior portions of the box. A divider 42, 44 between adjacent baffle members defines at least one receptacle for the rodent bait. A cover 62 and means 68, 70 for securing the cover to the box are also provided to prevent unauthorized tampering. The arrangement of baffles and dividers is such that a rodent has to cross a poisoned track 60 in order to reach the poisoned bait.



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SPECIFICATION

Rodent baiting device

5 This invention relates to rodent bait containers. More specifically, it involves a durable box for holding rodent bait and rodenticides which is safe for use around children, domestic animals and wildlife, yet is effective in killing the rodents.

10 A variety of rodent killing devices have been known in the art. However, they have had several drawbacks. For example, many of them have not been safe for children, domestic animals or wildlife. A recent U.S. Environmental Protection Agency regulation (F.I.F.R.A. amended 1972) has required all rodenticides to be kept out of reach of children, pets and wildlife and should be used only in tamper proof bait stations. Moreover, the prior art devices have not proved to be durable over long periods of use. Similarly, the design of known devices have been faulty in that they do not prevent contamination of the rodent poison from environmental conditions, for example, by water entering the device. Still other disadvantages of the prior art are that their design necessitated high construction costs, did not provide easy means for replenishing the rodent poison, and were not totally effective in killing the rodents.

According to the present invention there is provided a rodent baiting device comprising a substantially rectangular box having upright side and end walls, said end walls having openings therein to permit rodents to enter the interior of the box, a plurality of baffle members disposed parallel with the end walls and extending across the entire width of the box and upwardly to the top of the box, the outermost baffles nearest the end walls having openings therein which are offset from the openings in their associated end walls so as to prevent children or the like from gaining access to further interior portions of the box, at least one divider between adjacent baffle members and extending to the top of the box for providing at least one rodent feeding station, a cover for the box, and means for securing the cover to the box to prevent unauthorized tampering.

In a preferred embodiment, the feeding station includes two inclined plates defining a chute into which the poison can be readily inserted upon opening the cover of the box. In another embodiment, the baffle members define at least one track for holding poison powder. The tracks are positioned along passageways to the bait feeding station thereby insuring that the rodent will walk on the poison powder on its way to and from the feeding station.

55 Embodiments of the invention will now be described, by way of example, with reference to the accompanying drawing in which:—

Fig. 1 is a perspective view with parts broken away of one embodiment of the present invention;

60 Fig. 2 is a perspective view with parts broken away of another embodiment of a rodent feeding station; and

Fig. 3 is a top plan view of another embodiment of the present invention.

65 Referring now to Fig. 1, there is shown a substantially rectangular box 10 having upright side walls 12 and 14, as well as end walls 16 and 18. The box 10 is of an all-metal construction and preferably is made of 22 gauge steel. End walls 16 and 18 have openings 20 and 22 therein, respectively. Openings 20 and 22 are typically approximately three inches in diameter and are disposed towards one of the side walls and terminate approximately one inch above bottom 24 of the box. Mounting holes 26 and 28 are provided 75 on the back side wall 14 and bottom 24 of the box 10 in order to facilitate easy mounting of the device. In this embodiment, the box 10 is approximately eight inches in width, six inches in height, and twenty-four inches long.

80 A plurality of baffle members 30, 32, 34 and 36 extend entirely across the width of the box parallel to end walls 16 and 18. Furthermore, they extend the entire height of the box as can be seen clearly in the drawings. Baffles 30, 32, 34 and 36 can be attached 85 to the box, for example, by welding. Since baffles 30, 32, 34 and 36 extend the entire width of the box they add rigidity and strength to the device. The outermost baffles 30 and 36 include openings 38 and 40 therein respectively. Openings 38 and 40 are offset or misaligned from the openings 20 and 22 in their associated end walls 16 and 18. For example, opening 38 is offset from opening 20, whereas opening 40 is similarly offset from opening 22. Accordingly, this prevents children from reaching through entrance 95 openings 20 and 22 and gaining access to the interior portions of the device in which rodent poison is placed.

Dividers 42 and 44 extend across adjacent baffle members to form two interior bait feeding compartments 46 and 48, respectively. Divider 42 joins baffles 30 and 32 and extends the entire height of the box. Similarly, divider 44 joins baffles 34 and 36 and extends the entire height of the box. Baffle 32 includes two openings 50 and 52. Opening 50 is aligned with opening 38 in baffle 30, whereas opening 52 provides an entrance way into feeding station 46. Similarly baffle 34 includes openings 54 and 56. Opening 54 is aligned with opening 40 in baffle 36, with opening 56 providing an entrance way into feeding station 48. It should be noted that all of the openings hereinbefore described are spaced at least one inch above the bottom 24 of the box to prevent contamination of the poison within the interior of the box 10.

115 A lip 58 approximately one inch high extends across baffles 34 and 36 to form a track 60 defined on its remaining sides by baffle 32, side wall 14, and baffle 34. Track 60 provides a tray for holding poison powder which when walked upon the rodents ingest 120 into their system. Since the track 60 is immediately adjacent the entrance ways 52 and 56 into either of the bait feeding stations 46 and 48, the rodent must walk on track 60 in order to get to the bait.

A cover 62 is provided with a lip portion 64 about

its periphery to prevent contamination of the interior portions of the box 10 when cover 62 is closed.

Cover 62 is coupled to the upper portion of the side wall 14 by an internal hinge 66. While in this embodiment hinge 66 is an internal hinge, other types of hinges can be utilized. Cover 62 also includes a hasp 68 which co-operates with hook 70 on the front side wall 12 to securely latch the cover 62 on top of box 10. A suitable padlock (not shown) can be used to lock the cover and permit access into the interior portions of the box only by authorised personnel.

In order to use the device of the present invention, poison bait is placed in feeding stations 46 and 48, with poison powder being placed in track 60. Cover 62 is closed and locked via hasp 68. The box 10 is then placed in an appropriate location. It can be permanently mounted through the use of mounting holes 26 and 28. The rodent enters into box 10 through openings 20 or 22 and then proceeds through opening 38 and 50 or 40 and 44 to track portion 60. It should be noted that the rodent must always travel on track 60 in order to get to either of the feeding stations 46 or 48. After progressing through track 60 the rodent enters either of bait feeding stations 46 or 48 in which it eats the poison bait. Therefore, this invention provides twofold killing method, one being the poison powder and the other being the poison bait.

Fig. 2 shows an alternative embodiment of a bait feeding station construction. Bait feeding station 70 as shown in Fig. 2 can be utilized in either of the bait feeding stations 46 and 48 shown in Fig. 1. For ease in perceiving the relationship with the embodiment shown in Fig. 1, the same reference numerals will be utilized to refer to common portions. Station 70 includes two substantially parallel inclined plates 72 and 74 which extend across the full width of the compartment defined by the surrounding walls. Plate 72 is joined to the bottom of the compartment substantially at the middle thereof, while being terminated flush with the top of the compartment. In contrast, plate 74 terminates below the top of the compartment. Plate 74 also includes an opening 76 which faces opening 56. In such manner, plate 72 and 74 form a chute into which poison bait, such as poisoned grain, can be readily placed by opening the cover 62 of the box. The grain is directed by gravity towards opening 76 so that a continuous supply of poison will be provided. Consequently, the rodent enters opening 56 and may feed on the grain emanating from opening 76. Hence, it can be seen that the feeding station 70 construction of this embodiment provides a means by which a large amount of poison can be readily placed into a feeding station and provide a prolonged feeding of the rodents without further replenishment.

Fig. 3 shows an alternative embodiment of the passageways defined by the various baffles and dividers therein. Device 80 is similar to that shown in connection with the embodiment of Fig. 1. Hence, the same reference numerals will be utilized to refer to common portions. In this embodiment, openings 82 and 84 in end walls 16 and 18 are disposed forwardly of the box. Openings 86, 88, 90 and 92 in baffles 30, 32, 34 and 36, respectively, are again mis-

aligned with openings 82 and 84 in order to prevent access to the interior portions of the box. A single bait feeding station 94 is defined by a divider 96 extending across baffles 32 and 34. An opening 95 provides an entranceway into station 94. The layout of this embodiment provides tracks 98, 100, and 102 as can be seen in the drawings. Consequently, poison powder can be placed in these compartments which ensures that the rodent will contact the poison on its way to and from bait feeding station 94. The baffles and location of the openings define a maze in which the rodent may become confused thereby prolonging the contact with the poison powder in the various tracks.

Therefore, it can be seen that the present invention provides an extremely durable and safe rodent baiting device.

CLAIMS

1. A rodent baiting device comprising: a substantially rectangular box having upright side and end walls, said end walls having openings therein to permit rodents to enter the interior of the box, a plurality of baffle members disposed parallel with the end walls and extending across the entire width of the box and upwardly to the top of the box, the outermost baffles nearest the end walls having openings therein which are offset from the openings in their associated end walls so as to prevent children or the like from gaining access to further interior portions of the box, at least one divider between adjacent baffle members and extending to the top of the box for providing at least one rodent feeding station, a cover for the box, and means for securing the cover to the box to prevent unauthorized tampering.
2. A device as claimed in claim 1 which further comprises: first, second, third, and fourth baffle members, a first divider extending perpendicularly to the end walls and joining said first and second baffle members thereby forming a first bait feeding station, a second divider extending perpendicularly to the end walls and joining said third and fourth baffle members thereby forming a second rodent feeding station, openings in said second and third baffle members to provide entrance ways into said first and second rodent feeding stations, and said second and third baffle members including further openings therein forming a passageway whereby the rodent can enter either of said feeding stations.
3. A device as claimed in claim 2 which further includes a lip extending perpendicularly to the end walls and joining said second and third baffle members to form a track for receipt of poison powder whereby the rodent must travel in the track on its way to and from said first or second bait feeding stations.
4. A device as claimed in any preceding claim, whereby it is constructed entirely of metal.
5. A device as claimed in any preceding claim, which further includes holes in the side and bottom portions of the box to facilitate permanent mounting of the device.
6. A device as claimed in any preceding claim, which further includes a hinge for the cover coupled to upper portions of a side wall.

7. A device as claimed in any preceding claim, wherein the cover includes a lip portion about its periphery to thereby prevent contamination of the interior portions of the box.
- 5 8. A device as claimed in any preceding claim, wherein at least the openings in the end walls are spaced from the bottom of the box to prevent contamination.
9. A device as claimed in any preceding claim, wherein said feeding station further comprises: a plurality of substantially inclined plates forming a chute into which rodent poison can be readily placed, with one of the plates including an opening therein out of which said poison is fed by gravity.
- 10 10. A device as claimed in claim 9 wherein said one plate terminates below the top of the box.
- 15 11. A rodent baiting device substantially as hereinbefore described with reference to Fig. 1; Fig. 2; or Fig. 3 of the accompanying drawing.

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